



002.00160.ST25.txt

SEQUENCE LISTING

<110> Cohen, Philip
Kobayashi, Takayasu
Deak, Maria

<120> Methods Of Activating Serum Glucocorticoid Induced Protein Kinase

<130> 002.00160

<140> US 09/868,131

<141> 2002-04-11

<150> PCT/GB99/04232

<151> 1999-12-14

<150> GB 9919676.8

<151> 1999-08-19

<150> US 60/112,217

<151> 1998-12-14

<160> 51

<170> PatentIn version 3.1

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<212> PRT

<213> Homo sapiens

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35 40 45

Val Leu Leu Ala Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys
50 55 60

Val Leu Gln Lys Lys Ser Ile Leu Lys Lys Lys Glu Gln Ser His Ile
65 70 75 80

Met Ala Glu Arg Ser Val Leu Leu Lys Asn Val Arg His Pro Phe Leu
85 90 95

Val Gly Leu Arg Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val
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Leu Asp Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu
 115 120 125

Arg Arg Phe Leu Glu Pro Arg Ala Arg Phe Tyr Ala Ala Glu Val Ala
 130 135 140

Ser Ala Ile Gly Tyr Leu His Ser Leu Asn Ile Ile Tyr Arg Asp Leu
 145 150 155 160

Lys Pro Glu Asn Ile Leu Leu Asp Cys Gln Gly His Val Val Leu Thr
 165 170 175

Asp Phe Gly Leu Cys Lys Glu Gly Val Glu Pro Glu Asp Thr Thr Ser
 180 185 190

Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys
 195 200 205

Glu Pro Tyr Asp Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu
 210 215 220

Tyr Glu Met Leu His Gly Leu Pro Pro Phe Tyr Ser Gln Asp Val Ser
 225 230 235 240

Gln Met Tyr Glu Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly Gly
 245 250 255

Arg Thr Val Ala Ala Cys Asp Leu Leu Gln Ser Leu Leu His Lys Asp
 260 265 270

Gln Arg Gln Arg Leu Gly Ser Lys Ala Asp Phe Leu Glu Ile Lys Asn
 275 280 285

His Val Phe Phe Ser Pro Ile Asn Trp Asp Asp Leu Tyr His Lys Arg
 290 295 300

Leu Thr Pro Pro Phe Asn Pro Asn Val Thr Gly Pro Ala Asp Leu Lys

305

310

315

320

His Phe Asp Pro Glu Phe Thr Gln Glu Ala Val Ser Lys Ser Ile Gly
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Leu Gly Phe Ser Tyr Ala Pro Glu Asp Asp Asp Ile Leu Asp Cys
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 35 40 45

Val Leu Leu Ala Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys
 50 55 60

Val Leu Gln Lys Lys Ser Ile Leu Lys Asn Lys Glu Gln Asn His Ile
 65 70 75 80

Met Ala Glu Arg Asn Val Leu Leu Lys Asn Val Arg His Pro Phe Leu
85 90 95

Val Gly Leu Arg Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val
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Leu Asp Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu
115 120 125

Arg Arg Phe Leu Glu Pro Arg Ala Arg Phe Tyr Thr Ala Glu Val Ala
130 135 140

Ser Ala Ile Gly Tyr Leu His Ser Leu Asn Ile Ile Tyr Arg Asp Leu
145 150 155 160

Lys Pro Glu Asn Ile Leu Leu Asp Cys Gln Gly His Val Val Leu Thr
165 170 175

Asp Phe Gly Leu Cys Lys Glu Cys Val Glu Pro Glu Glu Thr Thr Ser
180 185 190

Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys
195 200 205

Glu Pro Tyr Asp Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu
210 215 220

Tyr Glu Met Leu His Gly Leu Pro Pro Phe Phe Asn Thr Asp Val Ala
225 230 235 240

Gln Met Tyr Glu Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly Gly
245 250 255

Arg Thr Val Ala Ala Cys Asp Leu Leu Gln Gly Leu Leu His Lys Asp
260 265 270

Gln Arg Gln Arg Leu Gly Ser Lys Glu Asp Phe Leu Asp Ile Lys Asn
275 280 285

His Met Phe Phe Ser Pro Ile Asn Trp Asp Asp Leu Tyr His Lys Arg
290 295 300

Leu Thr Pro Pro Phe Asn Pro Asn Val Glu Gly Pro Ala Asp Leu Lys
 305 310 315 320

His Phe Asp Pro Glu Phe Thr Gln Glu Ala Val Ser Lys Ser Ile Gly
 325 330 335

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Asn Leu Val Arg Tyr Pro Glu Leu Tyr Asn His Pro Asp Val Arg Ala
 35 40 45

Phe Leu Gln Met Asp Ser Pro Lys His Gln Ser Asp Pro Ser Glu Asp
 50 55 60

Glu Asp Glu Arg Ser Ser Gln Lys Leu His Ser Thr Ser Gln Asn Ile
 65 70 75 80

Asn Leu Gly Pro Ser Gly Asn Pro His Ala Lys Pro Thr Asp Phe Asp
 85 90 95

Phe Leu Lys Val Ile Gly Lys Gly Ser Phe Gly Lys Val Leu Leu Ala
 100 105 110

Lys Arg Lys Leu Asp Gly Lys Phe Tyr Ala Val Lys Val Leu Gln Lys
 115 120 125

Lys Ile Val Leu Asn Arg Lys Glu Gln Lys His Ile Met Ala Glu Arg
130 135 140

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Tyr Ser Phe Gln Thr Thr Glu Lys Leu Tyr Phe Val Leu Asp Phe Val
165 170 175

Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu Arg Ser Phe Pro
180 185 190

Glu His Arg Ala Arg Phe Tyr Ala Ala Glu Ile Ala Ser Ala Leu Gly
195 200 205

Tyr Leu His Ser Ile Lys Ile Val Tyr Arg Asp Leu Lys Pro Glu Asn
210 215 220

Ile Leu Leu Asp Ser Val Gly His Val Val Leu Thr Asp Phe Gly Leu
225 230 235 240

Cys Lys Glu Gly Ile Ala Ile Ser Asp Thr Thr Thr Thr Phe Cys Gly
245 250 255

Thr Pro Glu Tyr Leu Ala Pro Glu Val Ile Arg Lys Gln Pro Tyr Asp
260 265 270

Asn Thr Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr Glu Met Leu
275 280 285

Tyr Gly Leu Pro Pro Phe Tyr Cys Arg Asp Val Ala Glu Met Tyr Asp
290 295 300

Asn Ile Leu His Lys Pro Leu Ser Leu Arg Pro Gly Val Ser Leu Thr
305 310 315 320

Ala Trp Ser Ile Leu Glu Glu Leu Leu Glu Lys Asp Arg Gln Asn Arg
325 330 335

Leu Gly Ala Lys Glu Asp Phe Leu Glu Ile Gln Asn His Pro Phe Phe

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345

350

Glu Ser Leu Ser Trp Ala Asp Leu Val Gln Lys Lys Ile Pro Pro Pro
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Phe Asn Pro Asn Val Ala Gly Pro Asp Asp Ile Arg Asn Phe Asp Thr
 370 375 380

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 35 40 45

Pro Val Pro Pro Glu Leu Pro Asp His Cys Tyr Arg Met Asn Ser Ser
 50 55 60

Pro Ala Gly Thr Pro Ser Pro Gln Pro Ser Arg Ala Asn Gly Asn Ile
 65 70 75 80

Asn Leu Gly Pro Ser Ala Asn Pro Asn Ala Gln Pro Thr Asp Phe Asp
 85 90 95

Phe Leu Lys Val Ile Gly Lys Gly Asn Tyr Gly Lys Val Leu Leu Ala
 100 105 110

Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys Val Leu Gln Lys
 115 120 125

Lys Ser Ile Leu Lys Lys Lys Glu Gln Ser His Ile Met Ala Glu Arg
 130 135 140

Ser Val Leu Leu Lys Asn Val Arg His Pro Phe Leu Val Gly Leu Arg
 145 150 155 160

Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val Leu Asp Tyr Val
 165 170 175

Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu Arg Arg Phe Leu
 180 185 190

Glu Pro Arg Ala Arg Phe Tyr Ala Ala Glu Val Ala Ser Ala Ile Gly
 195 200 205

Tyr Leu His Ser Leu Asn Ile Ile Tyr Arg Asp Leu Lys Pro Glu Asn
 210 215 220

Ile Leu Leu Asp Cys Gln Gly His Val Val Leu Thr Asp Phe Gly Leu
 225 230 235 240

Cys Lys Glu Gly Val Glu Pro Glu Asp Thr Thr Ser Thr Phe Cys Gly
 245 250 255

Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys Glu Pro Tyr Asp
 260 265 270

Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr Glu Met Leu
 275 280 285

His Gly Leu Pro Pro Phe Tyr Ser Gln Asp Val Ser Gln Met Tyr Glu
 290 295 300

Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly Gly Arg Thr Val Ala
 305 310 315 320

Ala Cys Asp Leu Leu Gln Ser Leu Leu His Lys Asp Gln Arg Gln Arg
 325 330 335

Leu Gly Ser Lys Ala Asp Phe Leu Glu Ile Lys Asn His Val Phe Phe
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Ser Pro Ile Asn Trp Asp Asp Leu Tyr His Lys Arg Leu Thr Pro Pro
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<212> DNA

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Pro Arg Thr Ser Ser Phe
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Arg Pro Arg Thr Ser Thr Phe
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Arg Pro Lys Thr Ser Ser Phe
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Arg Pro Arg Thr Ser Ser Phe
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Arg Pro Arg Thr Ser Ser Leu
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Arg Pro Arg Thr Ser Ser Val
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Arg Pro Arg Thr Ser Ser Ala
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Arg Pro Arg Thr Ser Ser Lys
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<210> 44
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Arg Pro Arg Thr Ser Ser Glu
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<220>
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 <223> F or Y

<220>
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 <223> S or T

<220>
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<400> 45

Phe Xaa Xaa Xaa Xaa Xaa
 1 5

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<223> any amino acid

<220>

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<223> any amino acid

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<223> S or T

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Arg Xaa Arg Xaa Xaa Xaa
1 5

<210> 47

<211> 7

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<223> any amino acid

<220>

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<223> any amino acid

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<222> (6)..(6)

<223> S or T

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Arg Xaa Arg Xaa Xaa Xaa Xaa
 1 5

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Xaa Thr Phe Cys Gly Thr Xaa Xaa Tyr Xaa Ala Pro Glu
 1 5 10

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<223> R or K

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<223> any amino acid

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<222> (6)..(6)

<223> S or T

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<222> (7)..(7)

<223> any amino acid, preferably hydrophobic

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 50

<211> 10

<212> PRT

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<400> 50

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Ser Ile Gly Cys Thr Pro Asp Thr Val Ala
1 5 10

<210> 51

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> PEPTIDE

<400> 51

Thr Phe Cys Gly Thr Pro Glu Thr Leu Ala
1 5 10